

## OUTPUT

```
mysql> create table employee (  
-> eno int,  
-> ename varchar(15),  
-> job varchar(20),  
-> salary int,  
-> dno int,  
-> grade varchar(5) );  
Query OK, 0 rows affected (0.31 sec)  
mysql> insert into employee values  
-> (1, 'ABC', 'Clerk', 5000, 10, 'A'),  
-> (2, 'BCD', 'Manager', 100000, 30, 'C'),  
-> (3, 'CDE', 'IT Professor', 200000, 20, 'D'),  
-> (4, 'DEF', 'Manager', 1500000, 20, 'E') ;  
Query OK, 4 rows affected (0.01 sec)  
Records: 4 Duplicates: 0 Warnings: 0  
  
mysql> create table dept (  
-> dno int,  
-> dname varchar(15),  
-> location varchar(20) );  
Query OK, 0 rows affected (0.01 sec)  
mysql> insert into dept values  
-> (10, 'Banking', 'Chennai'),  
-> (20, 'IT', 'Bangalore'),  
-> (30, 'Finance', 'Delhi'),  
-> (40, 'HR', 'Hyderabad') ;  
Query OK, 4 rows affected (0.00 sec)  
Records: 4 Duplicates: 0 Warnings: 0  
  
mysql> create table salary_grade (  
-> grade varchar(5),  
-> low_sal int,  
-> high_sal int );  
Query OK, 0 rows affected (0.01 sec)  
mysql> insert into salary_grade values  
-> ('A', 20000, 50000),  
-> ('B', 50001, 99999),  
-> ('C', 100000, 149999),  
-> ('D', 150000, 199999),  
-> ('E', 200000, 250000);  
Query OK, 5 rows affected (0.01 sec)  
Records: 5 Duplicates: 0 Warnings: 0  
  
mysql> select dname from dept where dno in (select distinct dno from  
employee);  
+-----+  
| dname |  
+-----+  
| Banking |  
| IT |  
| Finance |  
+-----+  
3 rows in set (0.00 sec)
```

```
mysql> select ename from employee where salary > (select salary from employee where ename='BCD');
```

```
+-----+
```

```
| ename |
```

```
+-----+
```

```
| CDE   |
```

```
| DEF   |
```

```
+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> select ename from employee where job = (select job from employee where ename='DEF');
```

```
+-----+
```

```
| ename |
```

```
+-----+
```

```
| BCD   |
```

```
| DEF   |
```

```
+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> select ename,salary from employee where salary > (select salary from employee where dno=30);
```

```
+-----+-----+
```

```
| ename | salary |
```

```
+-----+-----+
```

```
| CDE   | 200000 |
```

```
| DEF   | 1500000 |
```

```
+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> select low_sal from salary_grade where grade = (select grade from employee where ename='ABC');
```

```
+-----+
```

```
| low_sal |
```

```
+-----+
```

```
| 20000 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select dname from dept where dno = (select dno from employee where salary = (select max(salary) from employee));
```

```
+-----+
```

```
| dname |
```

```
+-----+
```

```
| IT     |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select avg(salary) as Avg_Salary from employee where dno = (select dno from dept where dname='IT');
```

```
+-----+
```

```
| Avg_Salary |
```

```
+-----+
```

```
| 850000.0000 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select * from employee where job in ('Manager','IT Professor') and salary >= 170000 and dno = (select dno from dept where dname='IT');
```

```
+-----+-----+-----+-----+-----+
| eno   | ename | job           | salary | dno | grade |
+-----+-----+-----+-----+-----+
| 3     | CDE   | IT Professor  | 200000 | 20  | D      |
| 4     | DEF   | Manager      | 1500000 | 20  | E      |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select ename,job from employee where dno = (select dno from dept where dname='IT') order by ename;
```

```
+-----+-----+
| ename | job           |
+-----+-----+
| CDE   | IT Professor  |
| DEF   | Manager      |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select ename from employee where salary > (select avg(low_sal) from salary_grade) and salary > (select avg(high_sal) from salary_grade);
```

```
+-----+
| ename |
+-----+
| CDE   |
| DEF   |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> select dname from dept where dno = (select dno from employee group by dno having count(*) > (select count(*) from dept where dname='Banking'));
```

```
+-----+
| dname |
+-----+
| IT    |
+-----+
1 row in set (0.00 sec)
```